

Cumulative Contents

Editorial

Regular Section

Regular Papers

- Intracellular calcium and pH alterations induced by *Escherichia coli* endotoxin in rat hepatocytes
M.T. Portolés, M.J. Ainaga, A.M. Municio and R. Pagani (Spain)
- Amplification and expression of *mdr* genes and flanking sequences in verapamil hypersensitive hamster cell lines
M.W. Stow and J.R. Warr (U.K.)
- Induction of nitrite production in mouse spleen cells by immunization
K. Takagi, H. Nakagami, T. Nakano and Y. Suketa (Japan)
- Polyphosphate metabolism in the alga *Dunaliella salina* studied by ^{31}P -NMR
M. Bental, U. Pick, M. Avron and H. Degani (Israel)
- Cytoplasmic malate levels in maize root tips during K^+ ion uptake determined by ^{13}C -NMR spectroscopy
K. Chang and J.K.M. Roberts (U.S.A.)
- Binding, uptake and efflux of ^{65}Zn by isolated human trophoblast cells
A. Mas and B. Sarkar (Canada)
- Emergence and recovery response of phosphate metabolites and intracellular pH in intact *Mytilus edulis* as examined in situ by in vivo ^{31}P -NMR
T.W.-M. Fan, R.M. Higashi and J.M. Macdonald (U.S.A.)

Subsection

Mini-Review

- The PtdIns-PLC superfamily and signal transduction
E. Meldrum, P.J. Parker and A. Carozzi (U.K.)

vii

Regular Papers

- Platelet responses promoted by the activation of protein kinase C or the increase of cytosolic Ca^{2+} are potentiated by adrenaline. Effects of cAMP and staurosporine
F. Zoccarato, M. Ruzzene, L. Cavallini, M.G. Doni, M.A. Francesconi, R. Deana and A. Alexandre (Italy) 72
- Protein synthesis is required for cholera toxin-induced stimulation of arachidonic acid metabolism
J.W. Peterson, J.C. Reitmeyer, C.A. Jackson and G.A.S. Ansari (U.S.A.) 79
- Inhibition by EDTA and enhancement by divalent cations or polyamines of the dithiothreitol-induced activation of adenylate cyclase in the cellular slime mold, *Dictyostelium discoideum*
M. Oyama and K. Kubota (Japan) 85
- Cytosolic calcium responses induced by photolytic release of 1,4,5-inositol trisphosphate in single human fibroblasts
A. Peres, C. Racca, L. Bertollini and E. Sturani (Italy) 89
- α_1 -Adrenergic regulation of ketogenesis in isolated rat hepatocytes
T. Nomura, Y. Nomura, M. Tachibana, H. Nomura, K. Ukai, R. Yokoyama and Y. Hagino (Japan) 94
- Effect of luteinizing hormone releasing hormone pulse characteristics on comparative luteinizing hormone and follicle stimulating hormone secretion from superfused rat anterior pituitary cell cultures
T.A. Kellom and J.L. O'Conner (U.S.A.) 101
- Evidence for protein kinase C - independent pathways mediating phorbol ester induced plasmacytoid differentiation of B chronic lymphocytic leukemia cells
J.J. Murphy, J.C. Yaxley and J.D. Norton (U.K.) 110

Reports

- Down-regulation of protein kinase C activity in 1,2-dimethylhydrazine-induced rat colonic tumors
R.K. Wali, C.L. Baum, M.J.G. Bolt, P.K. Dudeja, M.D. Sitrin and T.A. Brasitus (U.S.A.) 119

- Post-transcriptional regulation of cytoskeletal actin and T lymphocyte receptor β chain mRNA by phorbol ester
M.R. Goodier and J.E. Kay (U.K.)

124

Regular Section

Minireview

- The molecular basis of the hepatic microsomal glucose-6-phosphatase system
A. Burchell and I.D. Waddell (U.K.)

129

Regular Papers

- Increases in Na/K pump numbers in isolated human lymphocytes exposed to lithium in vitro. Reversal by myo-inositol and by inhibitors of protein kinase C and the Na/H antiport
R.J. Jenkins, J.K. Aronson and C.J. Brearley (U.K.)

138

- Intracellular mechanisms involved in short-term regulation of net protein synthesis in pancreatic acini
P.S. Perkins, L.H. Bahrami, L.W. Lenhard and S.J. Pandol (U.S.A.)

145

- High efficiency gene transfection by electroporation using a radio-frequency electric field
D.C. Chang, P.-Q. Gao and B.L. Maxwell (U.S.A.)

153

- Presence of ornithine decarboxylase antizyme in primary cultured hepatocytes of the frog *Xenopus laevis*
T.G. Baby and S.-i. Hayashi (Japan)

161

- Induction of LFA-1-mediated homotypic adhesions in promonocytic U-937 cells occurs independently of cell differentiation
C. Cabañas, P. Lastres, T. Bellón, P. Aller, C.G. Figdor, A. Corbi and C. Bernabeu (Spain, The Netherlands)

165

- Synergistic effect of thromboxane A_2 and *N*-formylmethionylleucylphenylalanine on platelet-activating factor synthesis in human polymorphonuclear neutrophils
J. Kishino, K. Hanasaki, T. Kato and H. Arita (Japan)

169

- Enhancement of glutathione levels in mouse peritoneal macrophages by sodium arsenite, cadmium chloride and glucose/glucose oxidase
S. Bannai, H. Sato, T. Ishii and S. Taketani (Japan)

175

Reports

- Sulphate induces very fast cell rounding and detachment
K.H. Sit and K.P. Wong (Singapore)

180

- Cytochrome *c* oxidase subunit II mRNA levels during T-lymphocyte proliferation and liver regeneration
A. Otero, X.R. Bustelo and J. Gómez-Márquez (Spain)

184

Subsection

Regular Papers

- Interaction of rat liver glucocorticoid receptor with a newly synthesized antisteroid ZK98299
Z. Zakula and V.K. Moudgil (U.S.A.)

188

- Manganese-stimulated phosphorylation of a rat pancreatic protein: identity with elongation factor 2
S.A.B. Knight, W. Kohr and M. Korc (U.S.A.)

196

- Effects of chloride deficiency on the pancreatic B-cell response to acetylcholine
M.P. Hermans, W. Schmeer, M. Gérard and J.-C. Henquin (Belgium, F.R.G.)

205

- Effect of estradiol and progesterone on long chain fatty acyl-coenzyme A levels in the rat uterus
A.J. Young and K.L. Barker (U.S.A.)

211

- Isolation and characterization of an estrogen-regulated ribosome-associated inactivator of tRNA aminoacylation in the uterus
S.M. Whelly, K.R. Rasmussen, J. Skudlarek and K.L. Barker (U.S.A.)

218

- The bovine endothelin receptor has an apparent molecular weight of 43 000
D.L. Bednar, R.B. Stein, V.M. Garsky and D.L. Williams Jr. (U.S.A.)

226

- Characteristics of dehydroepiandrosterone as a peroxisome proliferator
J. Yamada, M. Sakuma, T. Ikeda, K. Fukuda and T. Suga (Japan)

233

- Influence of PMA and a low extracellular Ca^{2+} concentration on the development of the Na^{+} -dependent hexose carrier in LLC-PK₁ cells
L. Van Den Bosch, H. De Smedt and R. Borghgraef (Belgium)

244

- The role of protein kinase C activation and inositol phosphate production in the regulation of cell-surface expression of Mac-1 by complement fragment C5a
P.N. Monk and P. Banks (U.K.)

251

- Phosphorylation and dephosphorylation of human platelet surface proteins by an ecto-protein kinase/phosphatase system
U.P. Naik, E. Kornecki and Y.H. Ehrlich (U.S.A.)

256

- Hydrolysis of phosphatidylcholine by phospholipase D is a common response to mitogens

- which stimulate inositol lipid hydrolysis in Swiss 3T3 fibroblasts
S.J. Cook and M.J.O. Wakelam (U.K.) 265
- Titles of related papers in other sections* 273
- Regular Section**
- Regular Papers**
- Relationship between the stimulation of citric acid cycle oxidation and the stimulation of fatty acid esterification and inhibition of ketogenesis by lactate in isolated rat hepatocytes
D.C. Henly and M.N. Berry (Australia) 277
- Effect of methylglyoxal on glucose formation, drug oxidation and glutathione content in isolated murine hepatocytes
M.P. Kalapos, T. Garzó, F. Antoni and J. Mandl (Hungary) 284
- Studies on the mechanism of uptake of low density lipoprotein-proteoglycan complex in macrophages
P. Vijayagopal, S.R. Srinivasan, B. Radhakrishnamurthy and G.S. Berenson (U.S.A.) 291
- Influence of chlorambucil, a bifunctional alkylating agent, on the histone variant biosynthesis of HEP-2 cells
T.G. Sourlingas, V. Aleporou-Marinou, T.A. Pataryas and K.E. Sekeri-Pataryas (Greece) 298
- Arginine metabolism in rat enterocytes
F. Blachier, B. Darcy-Vrillon, A. Sener, P.-H. Duée and W.J. Malaisse (Belgium, France) 304
- Involvement of endogenously produced 1,25-dihydroxyvitamin D-3 in the growth and differentiation of human keratinocytes
K. Matsumoto, Y. Azuma, M. Kiyoki, H. Okumura, K. Hashimoto and K. Yoshikawa (Japan) 311
- Lipid peroxidation, protein thiol oxidation and DNA damage in hydrogen peroxide-induced injury to endothelial cells: role of activation of poly(ADP-ribose)polymerase
J.B. Kirkland (Canada) 319
- Effect of metal ion catalyzed oxidation of rifamycin SV on cell viability and metabolic performance of isolated rat hepatocytes
G.T. Sáez, V. Valls, H. Cabedo, A. Iradi, W.H. Bannister and J.V. Bannister (Spain, Malta, U.K.) 326
- Hyaluronic acid synthesis is absent in normal human endothelial cells irrespective of hyaluronic acid synthetase inhibitor activity, but is significantly high in transformed cells
K. Amanuma and Y. Mitsui (Japan) 336
- ¹⁹F-NMR study of the effect of lead on intracellular free calcium in human platelets
T.L. Dowd and R.K. Gupta (U.S.A.) 341
- Report**
- Inhibition of ATP-regulated K⁺-channels by a photoactivatable ATP-analogue in mouse pancreatic β -cells
C. Ämmälä, K. Bokvist, S. Galt and P. Rorsman (Sweden) 347
- Subsection**
- Minireview**
- Recent progress in characterization of protein kinase cascades for phosphorylation of ribosomal protein S6
T.W. Sturgill and J. Wu (U.S.A.) 350
- Regular Papers**
- Modification of membrane phospholipid fatty acyl composition in a leukemic T cell line: effects on receptor mediated intracellular Ca²⁺ increase
S.C. Chow, L. Sisfontes, M. Jondal and I. Björkhem (Sweden) 358
- Synergistic stimulatory effect of glucocorticoid, EGF and insulin on the synthesis of ribosomal RNA and phosphorylation of nucleolin in primary cultured rat hepatocytes
N. Suzuki, M. Kobayashi, K. Sakata, T. Suzuki and T. Hosoya (Japan) 367
- Effects of corticosteroid on the transport and metabolism of glutamine in rat skeletal muscle
H.S. Huhdal, P. Babji, P.M. Taylor, P.W. Watt and M.J. Rennie (U.K.) 376
- Effects of phosphatase inhibitors and a protein phosphatase on norepinephrine secretion by permeabilized bovine chromaffin cells
Y.N. Wu and P.D. Wagner (U.S.A.) 384
- Characterization of high affinity GTPase activity correlated to β -adrenergic receptor stimulation of adenylyl cyclase in rat parotid membranes
Y. Hiramatsu, I.S. Ambudkar and B.J. Baum (U.S.A.) 391
- Reports**
- Bombesin stimulates a high affinity GTPase activity in membranes of Swiss 3T3 fibroblasts
L. Morello, E. Sturani, M.G. Cattaneo, R. Brambilla, A. Vicario, L. Alberghina and R. Zippel (Italy) 397
- Physiologic levels of salivary epidermal growth

factor stimulate migration of an oral epithelial cell line		<i>Author Index</i>	409
<i>L.S. Royce and B.J. Baum (U.S.A.)</i>	401	<i>Cumulative Contents, Vol. 1092</i>	413
cAMP activates $\text{Cl}^-/\text{HCO}_3^-$ exchange for regulation of intracellular pH in renal epithelial cells			
<i>H. Harada, Y. Kanai, M. Anzai and Y. Suketa (Japan)</i>	404		

